

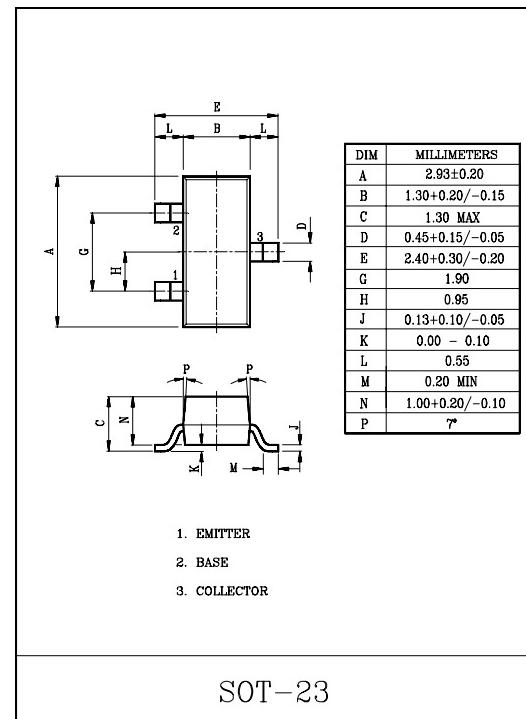
LOW LEVEL AUDIO-AMPLIFIER AND SWITCHING.

FEATURES

- Super Mini Packaged Transistor for Hybrid Circuits.
- For Complementary with PNP Type BCW69/70/89.

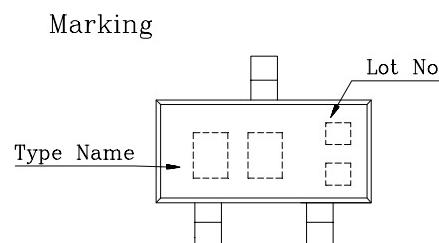
MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage Voltage	V _{CBO}	50	V
		60	
Collector-Emitter Voltage Voltage	V _{CEO}	45	V
		60	
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	100	mA
Emitter Current	I _E	-100	mA
Collector Power Dissipation	P _C	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-65~150	°C



MARK SPEC

TYPE	MARK
BCW71	K 1
BCW72	K 2
BCV71	K 7
BCV72	K 8



BCV71/72, BCW71/72

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage	BCW71/72	V _{(BR)CEO}	I _C =2mA, I _B =0	45	-	-	V
	BCV71/72			60	-	-	
Collector-Base Breakdown Voltage	BCW71/72	V _{(BR)CBO}	I _C =10μA, I _E =0	50	-	-	V
	BCV71/72			60	-	-	
Emitter-Base Breakdown Voltage		V _{(BR)EBO}	I _E =10μA, I _C =0	5.0	-	-	V
Collector Cut-off Current		I _{CBO}	V _{CB} =20V, I _E =0	-	-	100	nA
			Ta=100°C, V _{CB} =20V, I _E =0	-	-	10	μA
DC Current Gain	BCW71/BCV71	h _{FE}	V _{CE} =5V, I _C =10μA	-	100	-	
	BCW72/BCV72			-	160	-	
	BCW71/BCV71		V _{CE} =5V, I _C =2mA	110	-	220	
	BCW72/BCV72			200	-	450	
Base-Emitter Voltage		V _{BE(ON)}	V _{CE} =5V, I _C =2mA	550	-	700	mV
Base-Emitter Saturation Voltage		V _{BE(sat)}	I _C =10mA, I _B =0.5mA	-	750	-	mV
			I _C =50mA, I _B =2.5mA	-	870	-	
Collector-Emitter Saturation Voltage		V _{CE(sat)}	I _C =10mA, I _B =0.5mA	-	-	250	mV
			I _C =50mA, I _B =2.5mA	-	230	-	
Transition Frequency		f _T	I _C =10mA, V _{CE} =5V, f=100MHz	-	300	-	MHz
Collector Output Capacitance		C _{ob}	V _{CB} =10V, I _E =0, f=1MHz	-	-	4.0	pF
Noise Figure		NF	I _C =0.2mA, V _{CE} =5V, Δf=200Hz R _g =2kΩ, f=1kHz	-	-	10	dB